

20110404 14:00:00

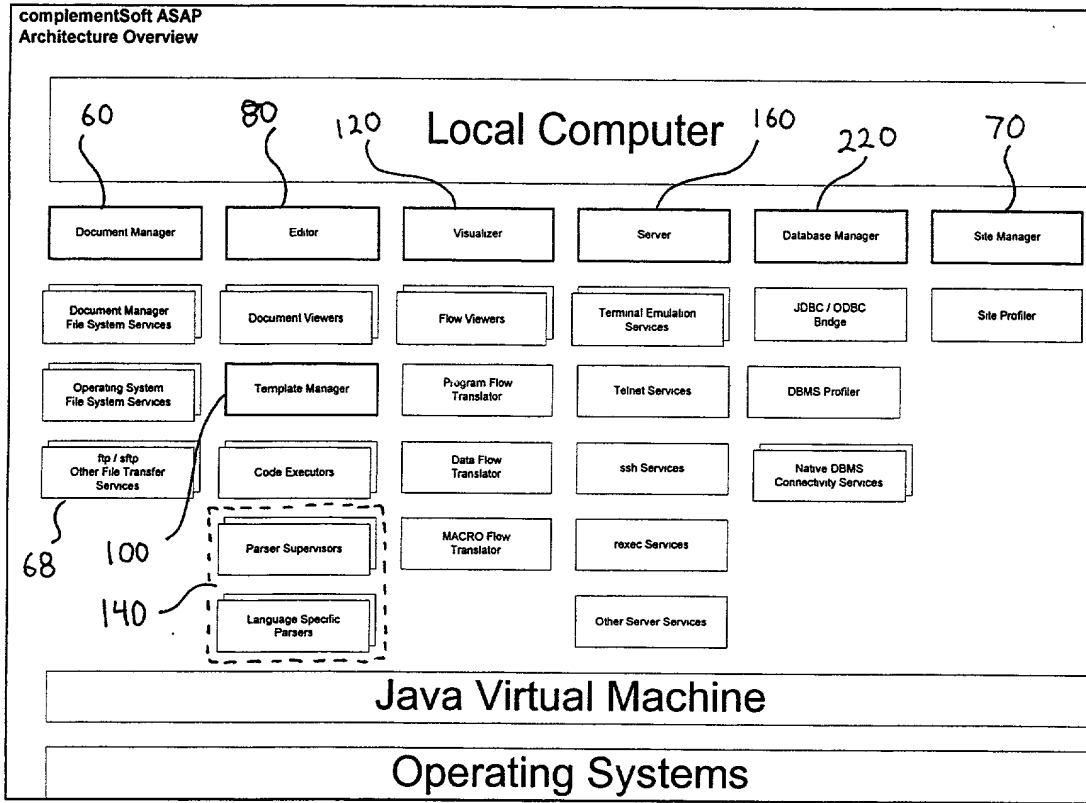
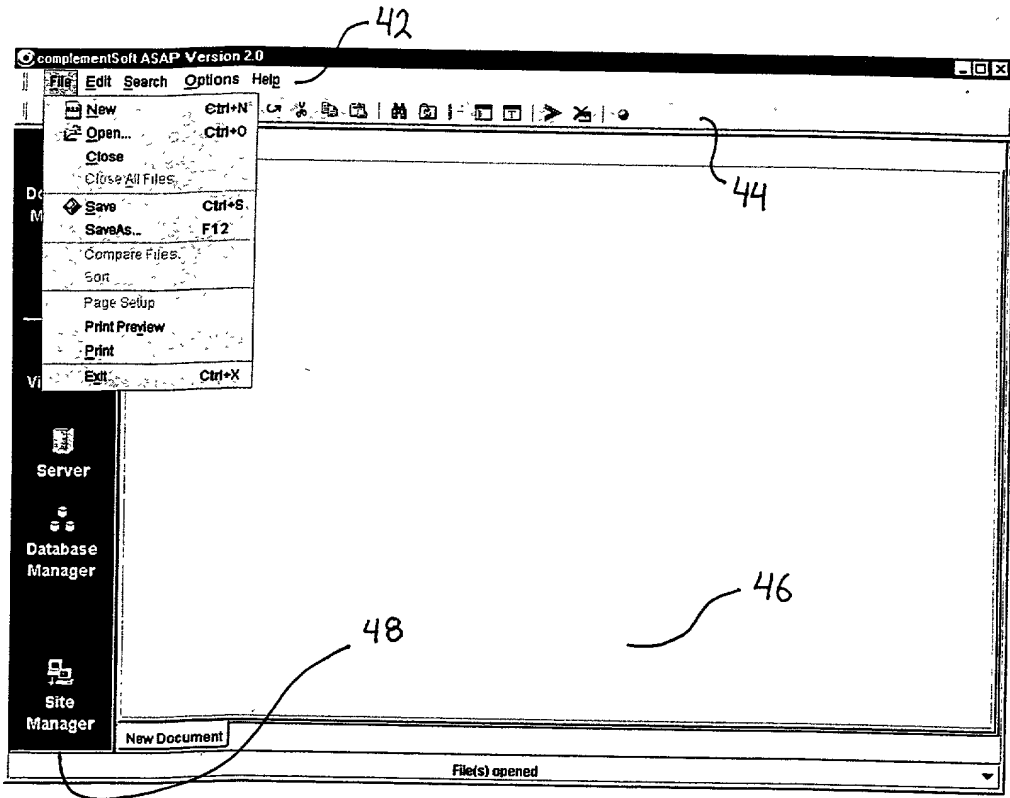
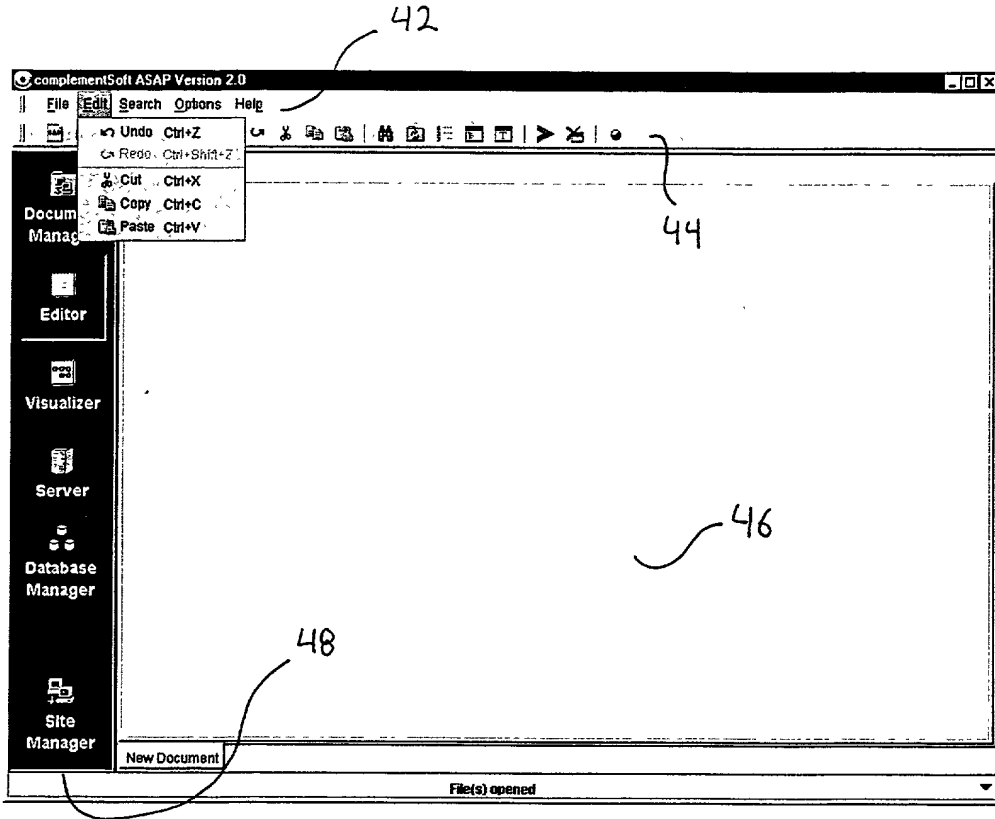


FIG. 2



Menu Item	Functionality
New	Create a new document (a program)
Open	Open an existing document
Close	Close the currently opened document
Save	Save the currently open document
Save As	Save the currently open document using a different name or in a different location
Print Preview	Print Preview of the currently open (active) document
Print	Print the currently open (active) document
Exit	Exit the application

FIG. 4a



Menu Item	Functionality
Undo	
Redo	
Cut	
Copy	
Paste	

FIG. 4b

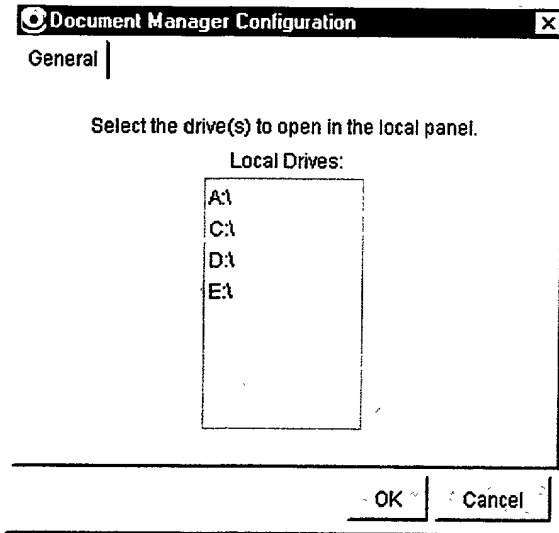


Figure 4da

2025 RELEASE UNDER E.O. 14176

20110428095500

Site Manager Configuration [X]

Connection

No proxies Firewall with no proxies
 Use proxies No network detection

Enable HTTP proxy

HTTP Proxy

Server Name _____ Server Port

Enable SOCKS proxy

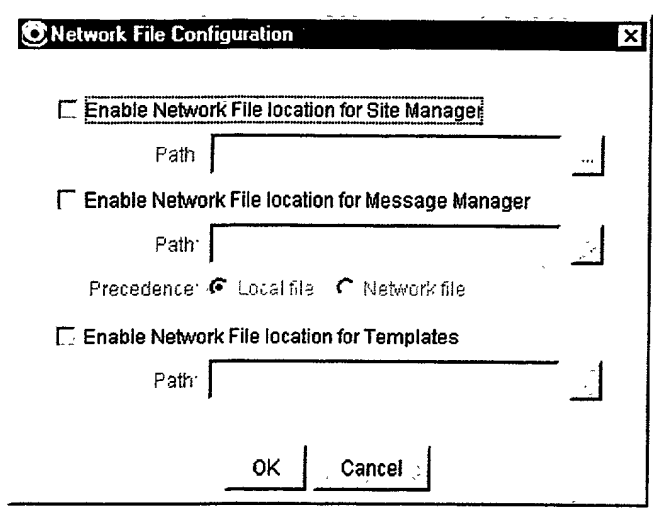
SOCKS Proxy

Server Name _____ Server Port

Ver 4 Authentication User Name: _____
 Ver 5 Password: _____

Fig 4dc

CONFIDENTIAL

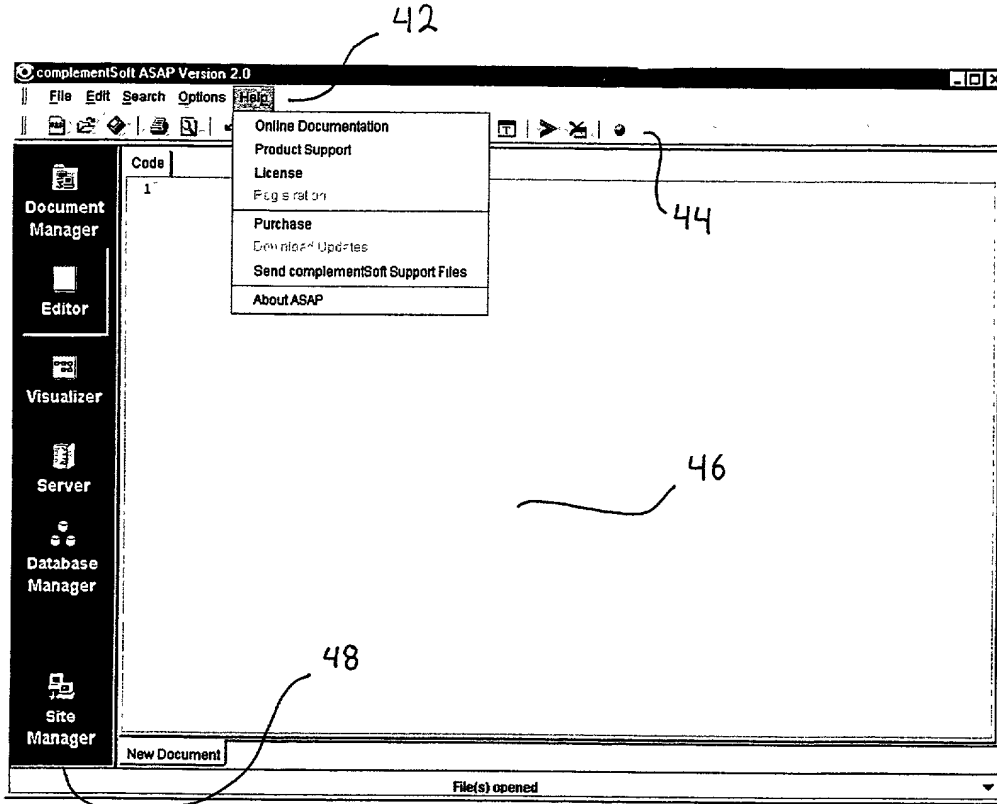


The image shows a dialog box titled "Network File Configuration" with a close button (X) in the top right corner. It contains three sections, each with an unchecked checkbox and a "Path" label followed by a text input field with a browse button (three dots):

- Enable Network File location for Site Manager
Path: []
- Enable Network File location for Message Manager
Path: []
Precedence: Local file Network file
- Enable Network File location for Templates
Path: []

At the bottom of the dialog are two buttons: "OK" and "Cancel".

Fig 4dd



Menu Item	Functionality
On-line Documentation	Show On-line Documentation
Product Support	Displays the Product Support Page with e-mail address, How to . . . and Frequently Asked Questions
License	Detailed license information with the ability to renew and/or upgrade the license
Registration	Perform on-line product registration
Purchase	Displays the complementSoft e-store
Download Updates	Retrieve Product Updates
Send complementsoft Support files	E-mail support files to complementSoft
About ASAP	Version and copyright information

FIG. 4e

ASAP TO THE USER

The screenshot shows the complementSoft ASAP Version 2.0 application window. The title bar includes the application name and standard window controls. The menu bar contains 'File', 'Edit', 'Search', 'Options', and 'Help'. The toolbar below the menu bar contains various icons for file operations and execution. On the left side, a vertical toolbar contains icons for 'Document Manager', 'Editor', 'Visualizer', 'Server', 'Database Manager', and 'Site Manager', with handwritten labels 48a through 48e pointing to them. The main workspace is divided into 'Code', 'Output', and 'Log' tabs. The 'Code' tab is active, displaying SAS code with handwritten label 42 pointing to the code area and 44 pointing to a specific line. The code includes comments, PROC statements, and DATA steps with transaction data. At the bottom, a status bar shows two file paths: 'D:\DATA\complementSoft\Examples\Example 5.sas' and 'D:\DATA\complementSoft\Examples\Example 3.sas', with label 48 pointing to the first path, 82 pointing to the second path, and 80 pointing to the 'File(s) opened' status text.

FIG. 6

FIG. 7

42

The screenshot shows the complementSoft ASAP Version 2.0 application window. The title bar includes the application name and standard window controls. The menu bar contains 'File', 'Edit', 'Search', 'Options', and 'Help'. Below the menu bar is a toolbar with various icons. On the left side, there is a vertical sidebar with icons and labels for 'Document Manager', 'Editor', 'Visualizer', 'Server', 'Database Manager', and 'Site Manager'. The main area is a code editor with a 'Code' tab selected. The code is SAS code for a test program. Line numbers 21 through 56 are visible on the left of the code. The code includes comments, PROC statements, DATA steps, and PRINT statements. There are handwritten annotations: '44' is written above the code area, and '92' is written next to line 73. At the bottom of the window, there is a status bar that says 'File(s) opened' and shows two file paths: 'D:\DATA\complementSoft\Examples\Example 5.sas' and 'D:\DATA\complementSoft\Examples\Example 3.sas'. Handwritten annotations '48', '82a', '80', and '82b' are located below the window frame.

```

21 /*****
22 -----PROC APPEND TEST PROGRAM-----
23
24 DATA TODAY;
25 INPUT ID AMOUNT TYPE;
26 DATE='01DEC87'd;
27 FORMAT DATE DATE7.;
28 CARDS;
29 0001 450.27 1
30 0002 200.50 2
31 0024 10.00 1
32 0045 299.80 1
33 0700 5.00 2
34 RUN;
35
36 /* FIRST DATA INTO JOURNAL */
37
38 PROC APPEND BASE=JOURNAL;
39 PROC PRINT DATA=JOURNAL;
40 TITLE 'MASTER AFTER FIRST TRANSACTIONS ADDED';
41
42 DATA TODAY2;
43 INPUT ID AMOUNT TYPE;
44 DATE='01DEC87'd;
45 FORMAT DATE DATE7.;
46 CARDS;
47 0024 270.48 1
48 0024 578.31 1
49 0007 300.00 2
50 0289 100.01 1
51 5762 950.00 1
52 RUN;
53
54 /* MORE DATA ADDED TO JOURNAL */
55
56 PROC APPEND BASE=JOURNAL;
  
```

44

92

D:\DATA\complementSoft\Examples\Example 5.sas D:\DATA\complementSoft\Examples\Example 3.sas

File(s) opened

48

82a

FIG. 7

80

82b

201104260000

The screenshot shows the SAS Templates window with the following components:

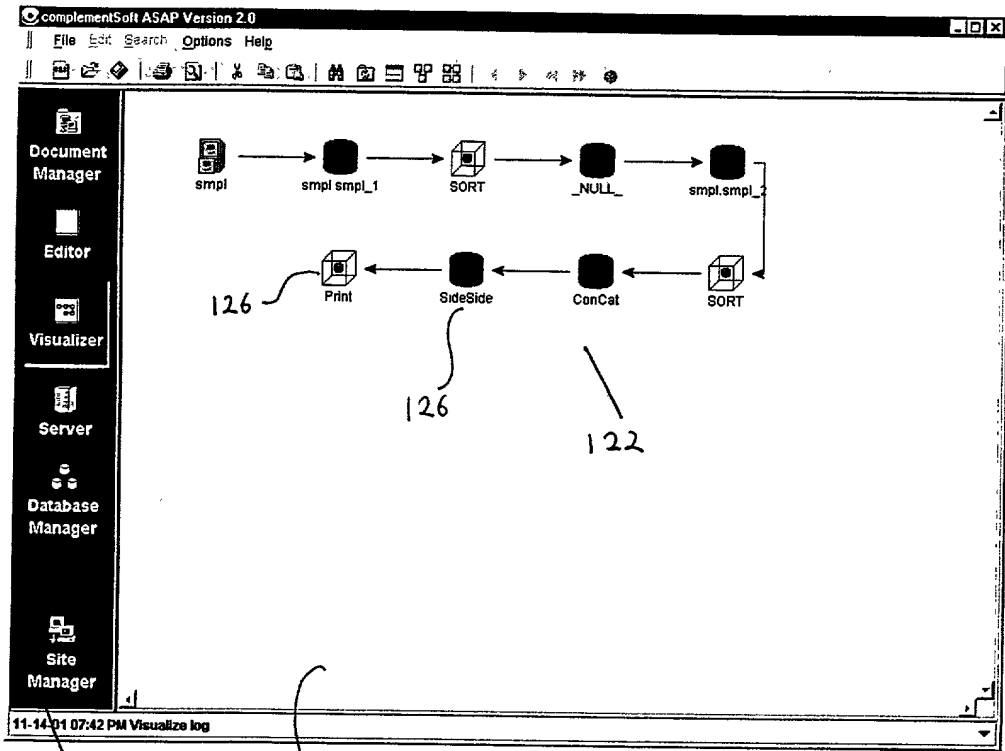
- 105**: Points to the 'SAS Language Elements' tree view on the left, which includes categories like Format, Informats, Functions, and Proc. Under Proc, various procedures are listed, with 'Catalog' highlighted.
- 104**: Points to the 'Catalog' procedure in the tree view.
- 106**: Points to the 'Local' dropdown menu at the top of the editor.
- 101a**: Points to the 'SAS Language Elements' dropdown menu.
- 101b**: Points to the 'Network' dropdown menu.
- 100**: Points to the main editor area containing the PROC CATALOG code.
- 101**: Points to the bottom of the editor area.

```
/* The Catalog procedure manages entries in SAS catalogs. */
/* PROC CATALOG is an interactive procedure that allows you to
- display the contents of a catalog
- copy a catalog or selected entries within a catalog
- rename, exchange, or delete entries within a catalog */
PROC CATALOG CATALOG=<libref.>catalog <ENTRYTYPE=etype> <FORCE> <KILL>;
  CONTENTS <OUT=SAS-data-set> <FILE=filecat>;
  COPY OUT=<libref.>catalog <options>; SELECT entry(s) </ ENTRYTYPE=etype>;
  EXCLUDE entry(s) </ ENTRYTYPE=etype>;

  CHANGE old-name-1=new-name-1
  <... old-name-n=new-name-n>
  </ ENTRYTYPE=etype>;
  EXCHANGE name-1=other-name-1
  <... name-n=other-name-n>
  </ ENTRYTYPE=etype>;
  DELETE entry(s)
  </ ENTRYTYPE=etype>;
  MODIFY entry
  (DESCRIPTION=<<'>entry-description(>>)
  </ ENTRYTYPE=etype>;
  SAVE entry(s) </ ENTRYTYPE=etype>;
```

FIG. 8

20140424 14:56:50



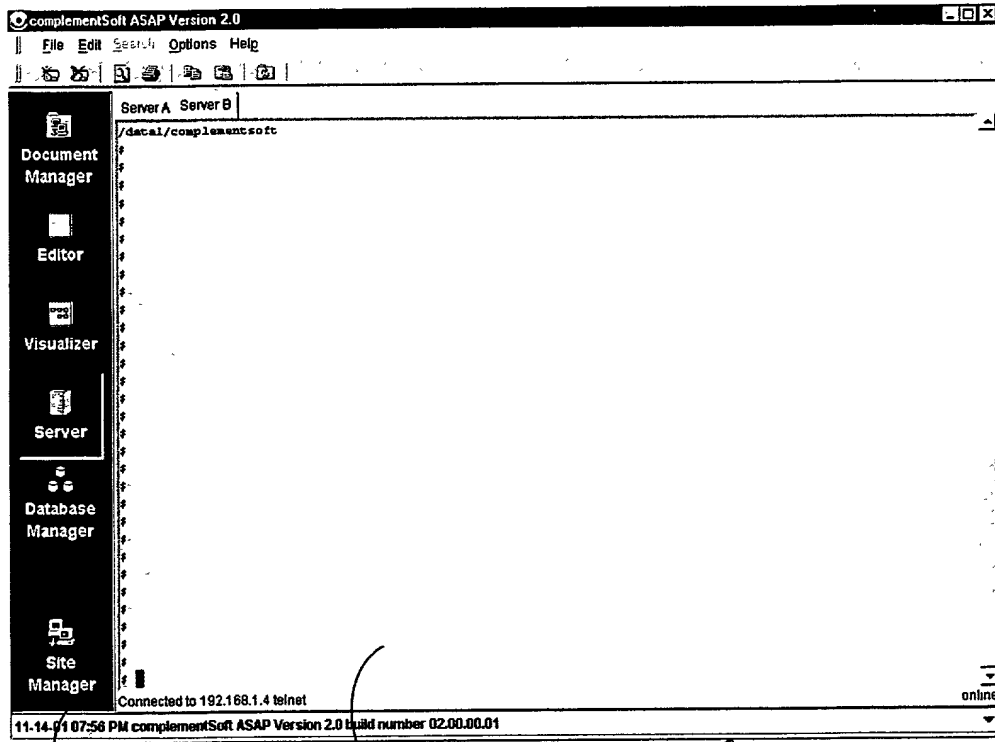
48

121

FIG. 9

120

CONFIDENTIAL



48

162

FIG. 10

160

ASAP TO THE 650

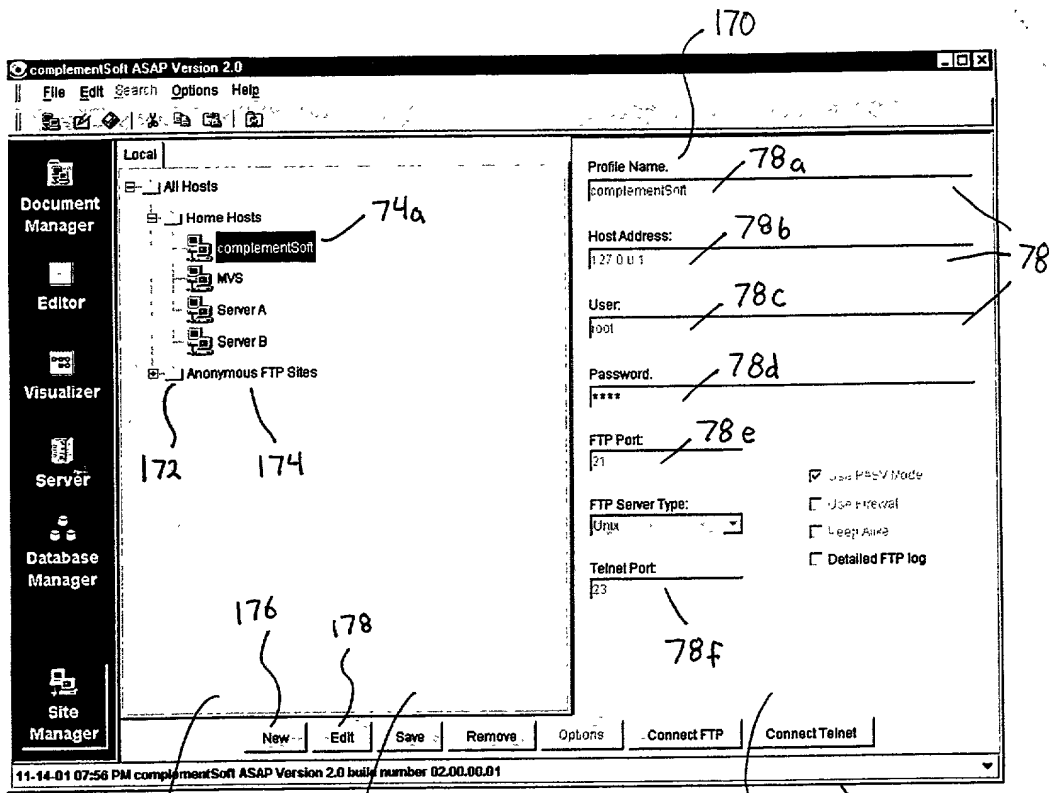


FIG. 11

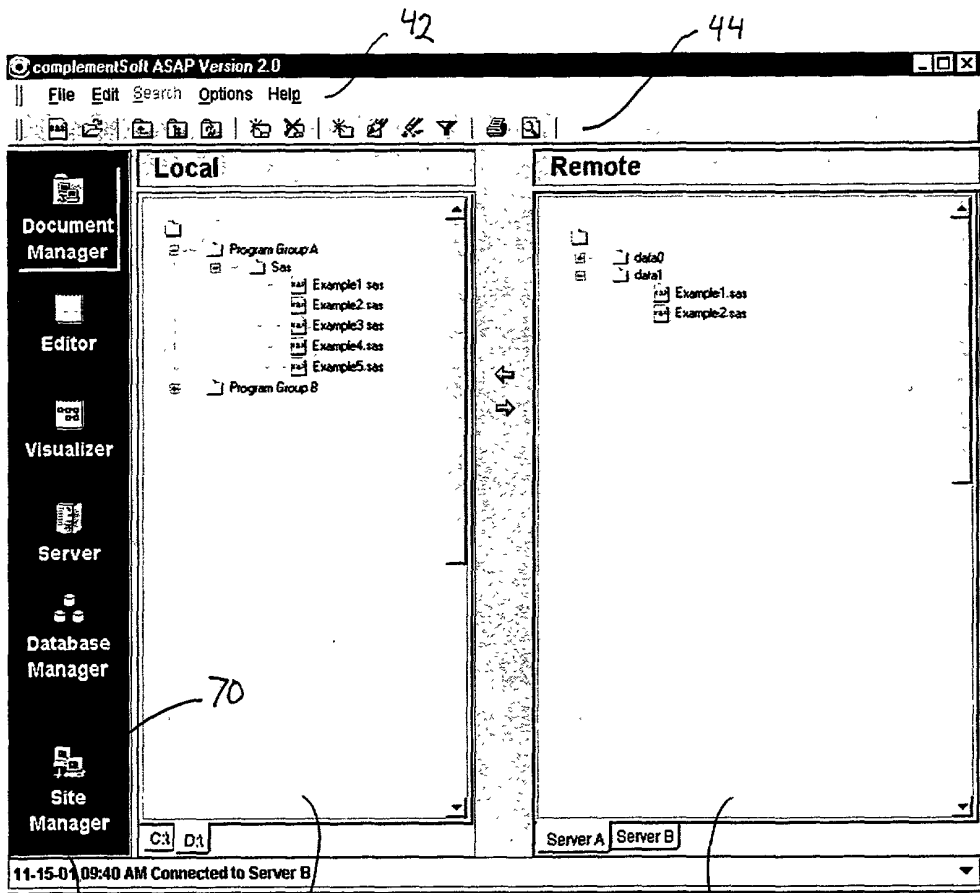
74

72

76

70

20171014292660



42

44

70

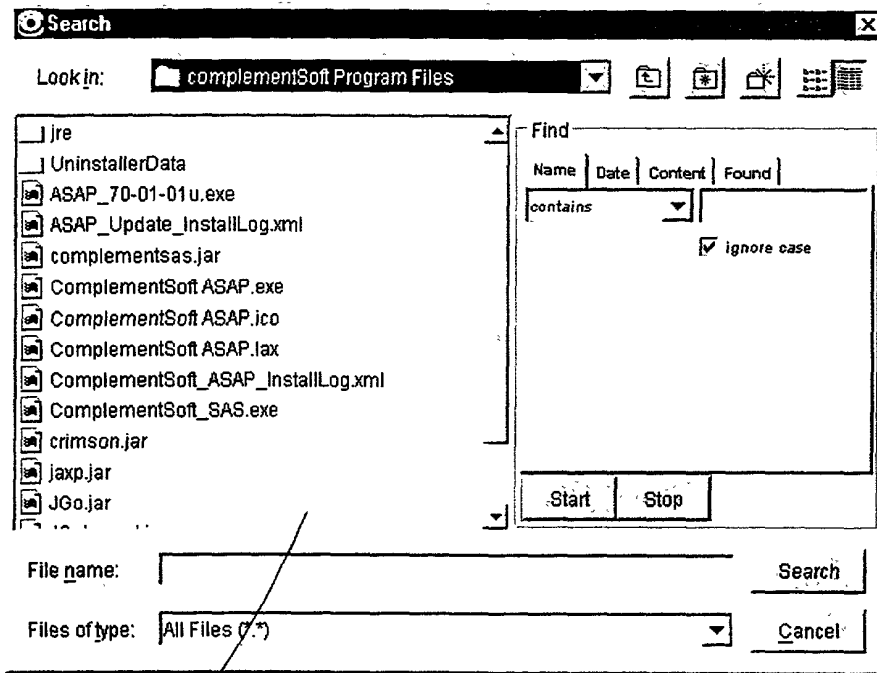
48

172

FIG. 12

174

60



69a

FIG. 13

69

20140420 14:30:00

CONFIDENTIAL

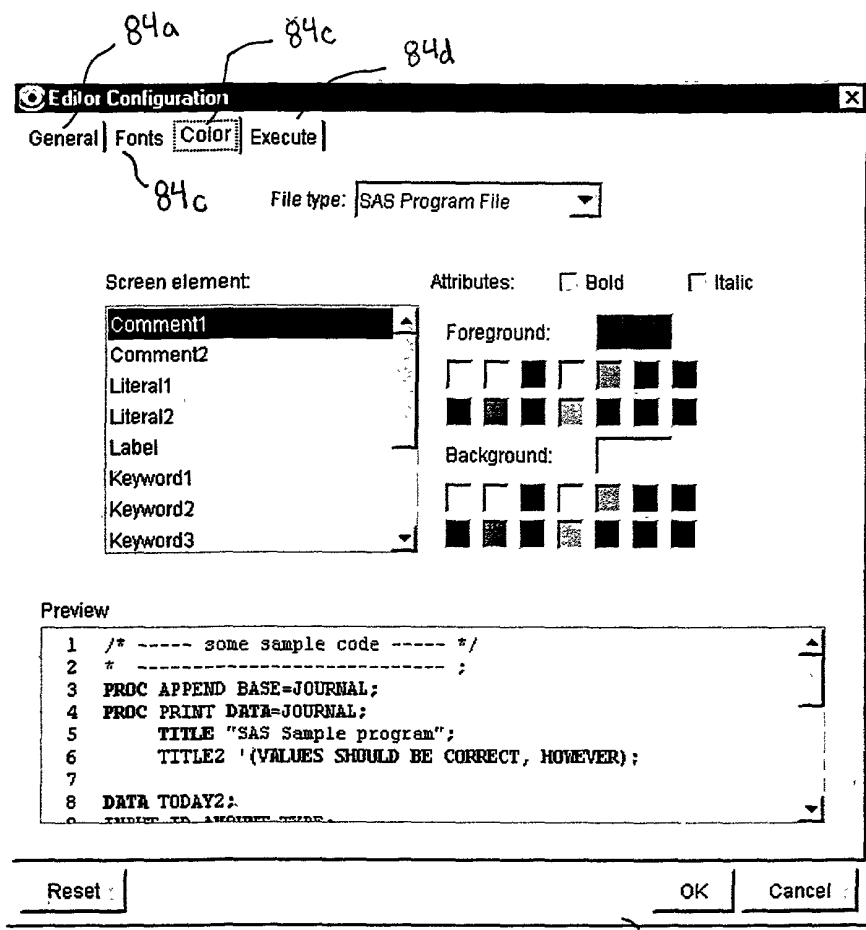


FIG. 14b

40710 42926560

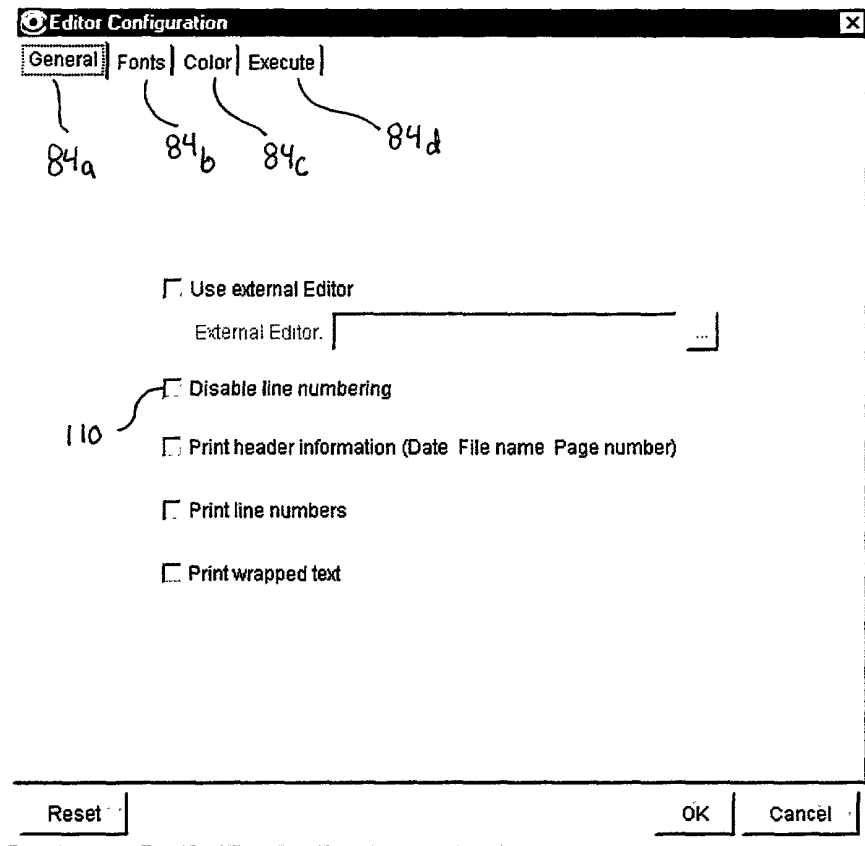


FIG. 14c

CONFIDENTIAL

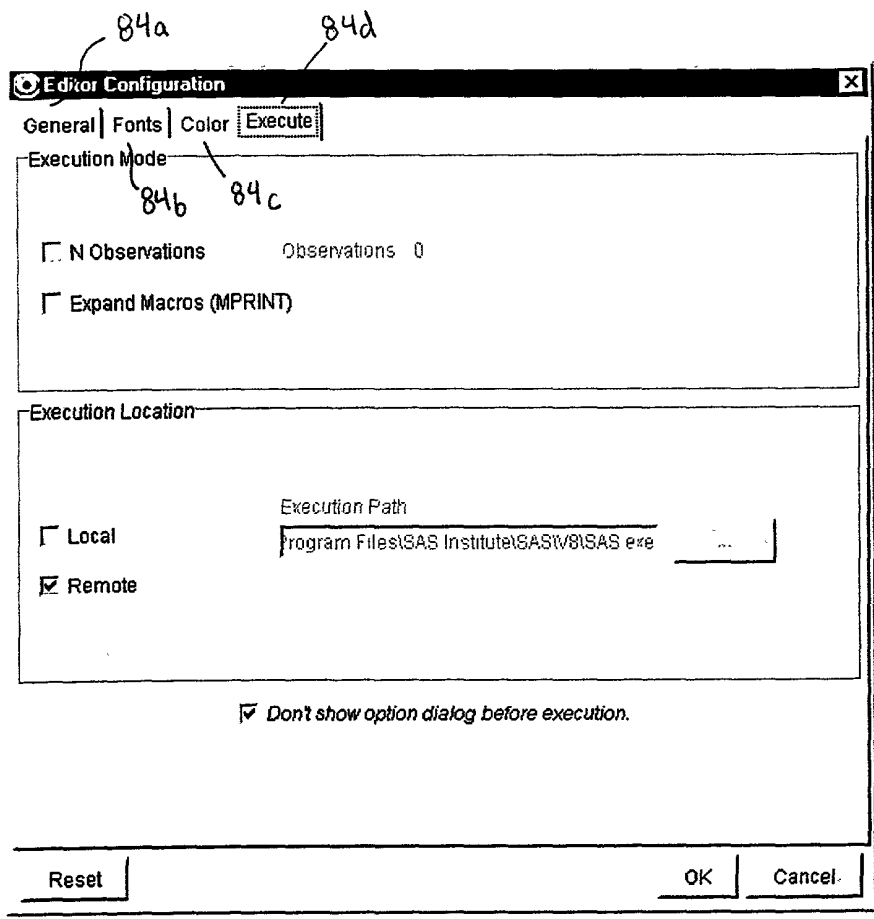


FIG. 14d

4234567890

84a 84b 84c 84d

Editor Configuration

General | **Fonts** | Color | Execute

Font Name: Courier New Size: 12 Style: Plain

Preview

```
1 /* ----- some sample code ----- */
2 * -----
3 PROC APPEND BASE=JOURNAL;
4 PROC PRINT DATA=JOURNAL;
5     TITLE "SAS Sample program";
6     TITLE2 '(VALUES SHOULD BE CORRECT, HOWEVER);
7
8 DATA TODAY2;
9 INPUT ID AMOUNT TYPE;
10 DATE='01DEC87'd;
11 FORMAT DATE DATE7.;
12 CARDS;
13 LOOP:
14 0024 270.48 1
15 0024 578.31 1
16 0007 300.00 2
17 0289 100.01 1
18 5762 950.00 1
19
20 IF VPT_MER > 0 THEN
21     VPC_MER = VHA_MER / VPT_MER * 100;
```

Reset OK Cancel

Fig 14 e

44770 425250

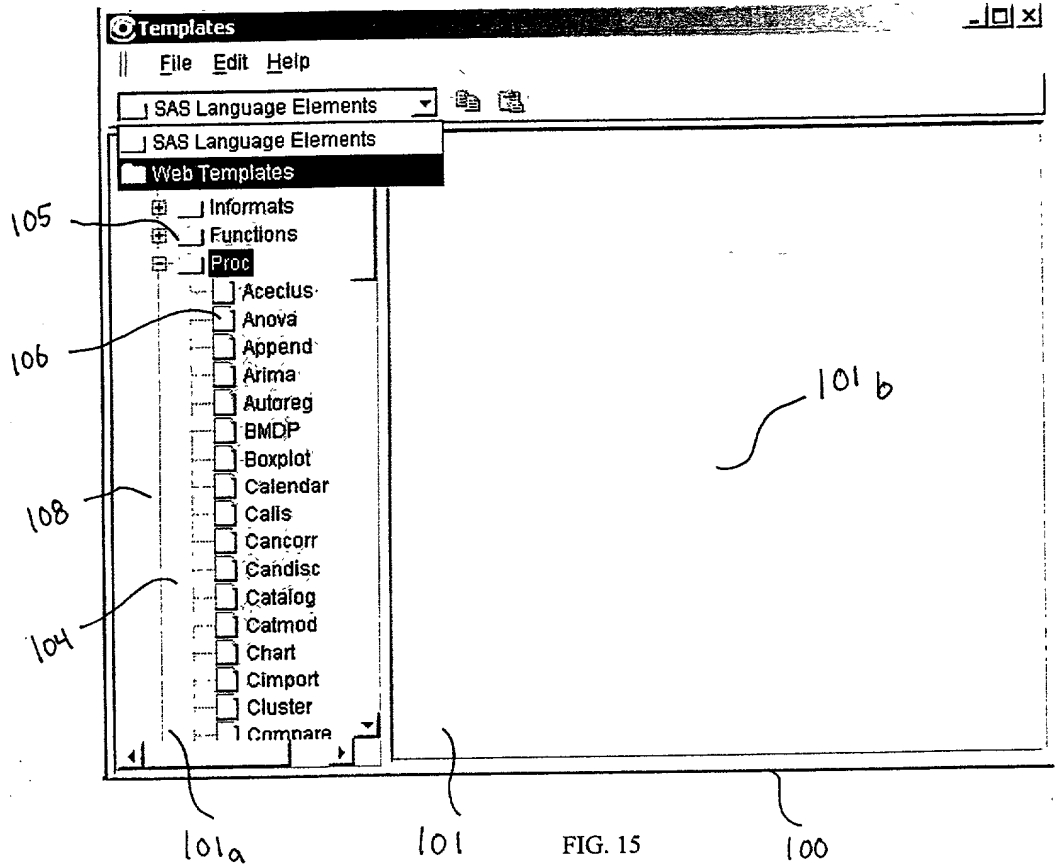
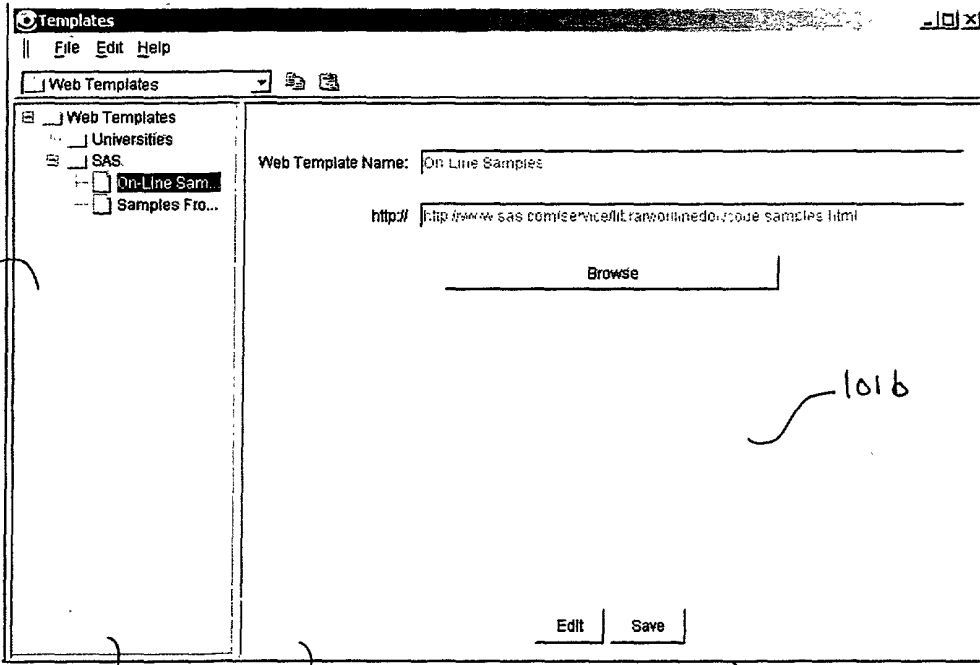


FIG. 15

201704290650

108



101a

101

FIG. 16

100

101b

20110110 14292666

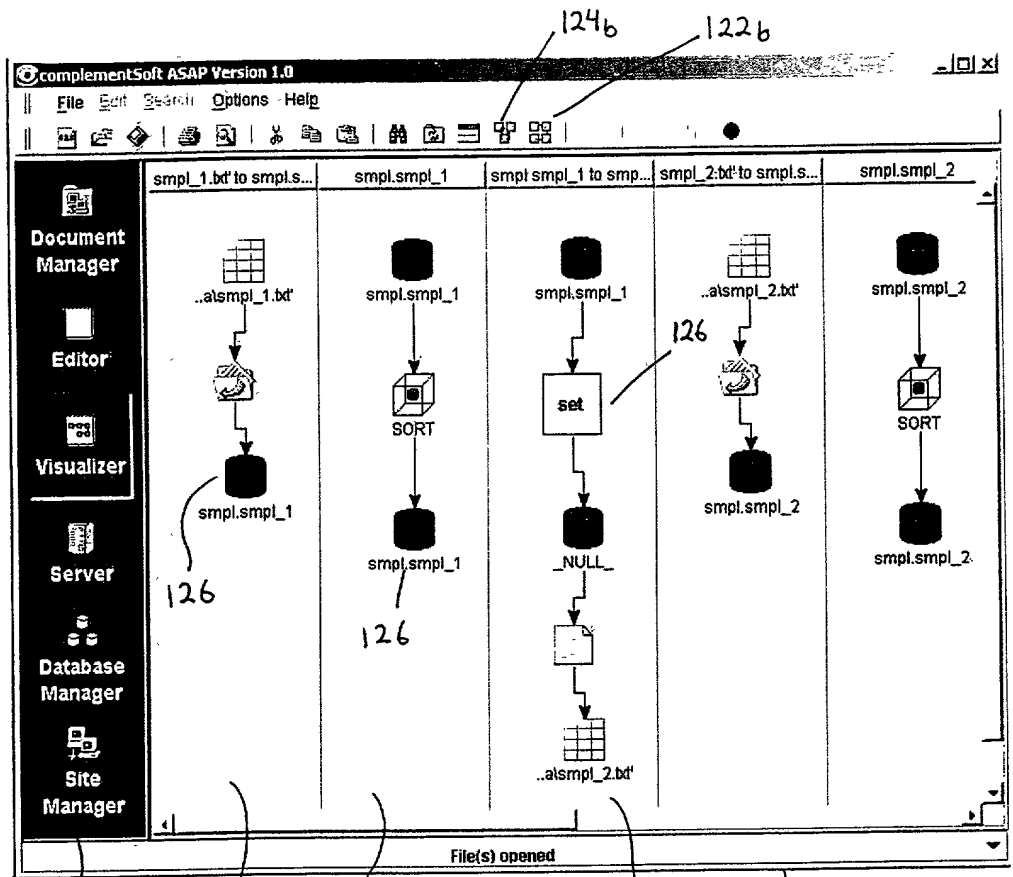
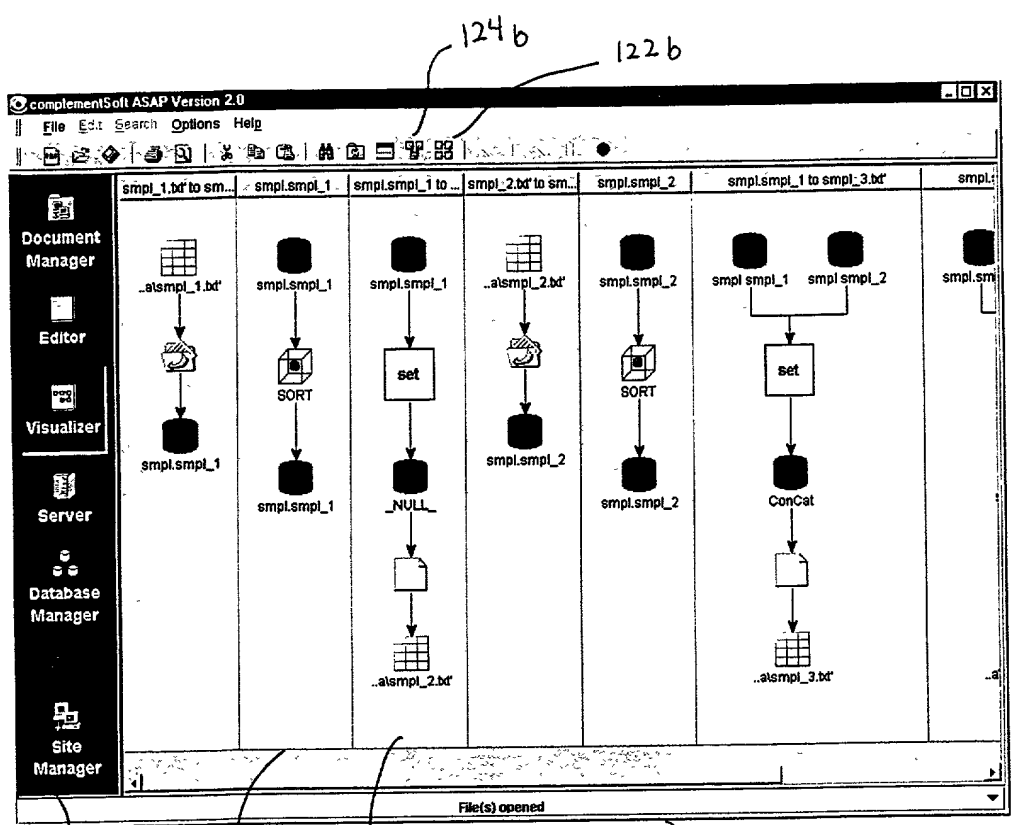


FIG. 17

48 121 124 124a 120

20110707 14:26:50



124 b 122 b

48

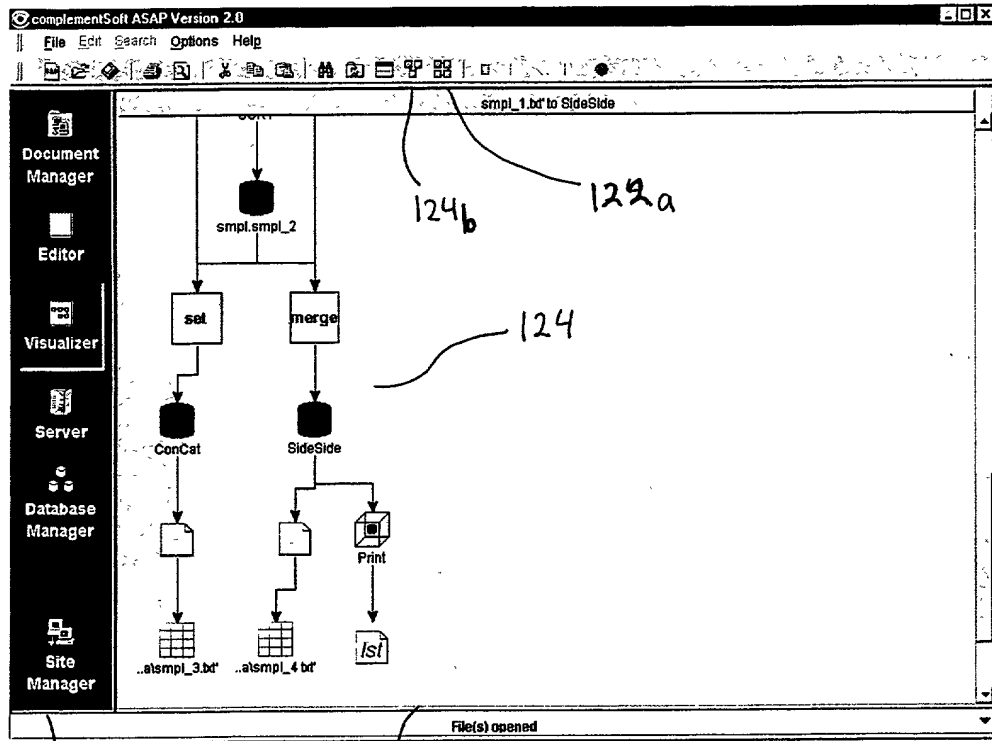
121

124

FIG. 18a

120

20110114125656



48

121

FIG. 18C

120

200410140436560

complementSoft ASAP Version 2.0

File Edit Search Options Help

```

Code
1 LIBNAME smpl 'd:\data\complementsoft\library' ;
2
3 Data smpl.smpl_1;
4   infile 'd:\data\complementsoft\data\smpl_1.txt';
5   input strcol1 $ strcol2 $ nbrcol;
6
7 Proc SORT out = smpl.smpl_1;
8   by strcol1;
9
10 Data _NULL_;
11   set smpl.smpl_1;
12   file 'd:\data\complementsoft\data\smpl_2.txt';
13   put strcol1 strcol2;
14
15 Data smpl.smpl_2;
16   infile 'd:\data\complementsoft\data\smpl_2.txt';
17   input strcol1 $ strcol2 $;
18
19 Proc SORT out = smpl.smpl_2;
20   by strcol1;

```

File(s) opened

48

121c

FIG. 19

120

126

122

121b

126

Elements appear in red when they contain problematic code.

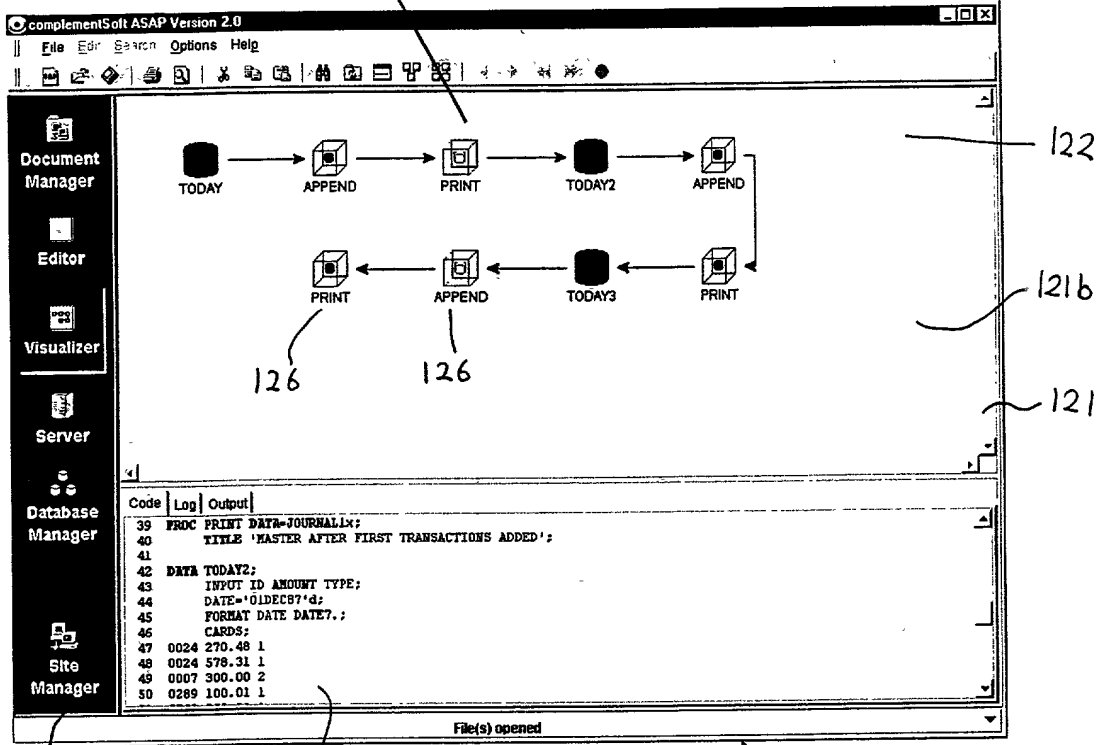


FIG. 20

complementSoft ASAP Version 2.0

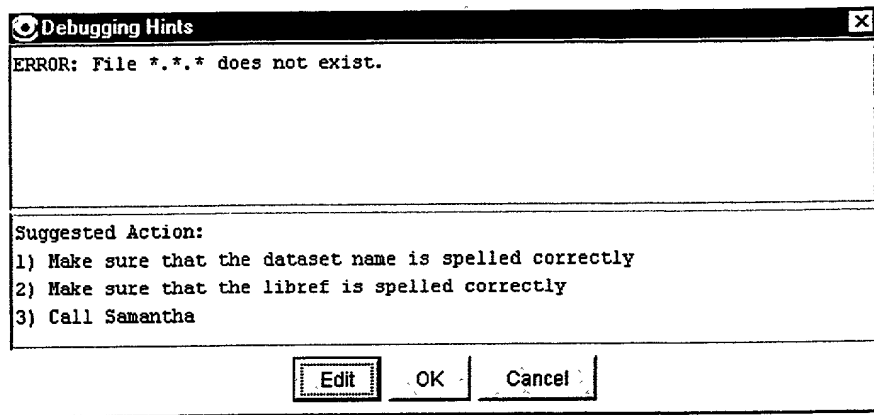


FIG. 20b

FOR RELEASE

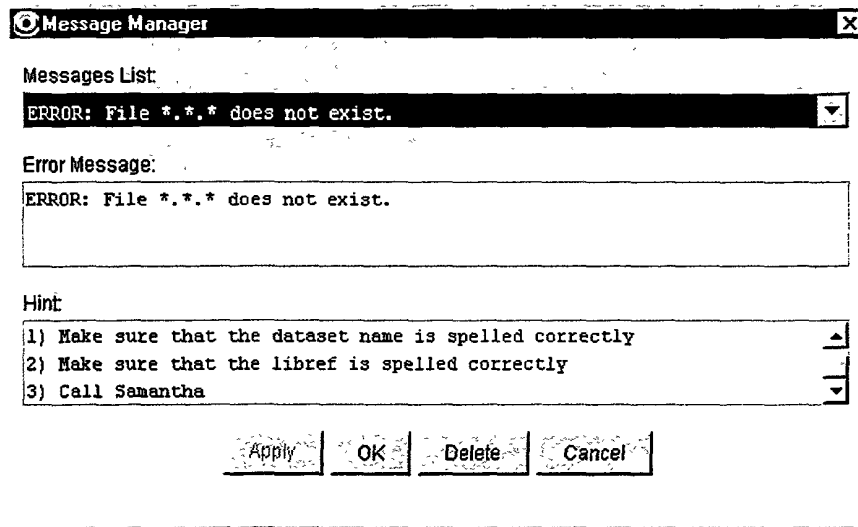


FIG. 20c

CONFIDENTIAL

CONFIDENTIAL

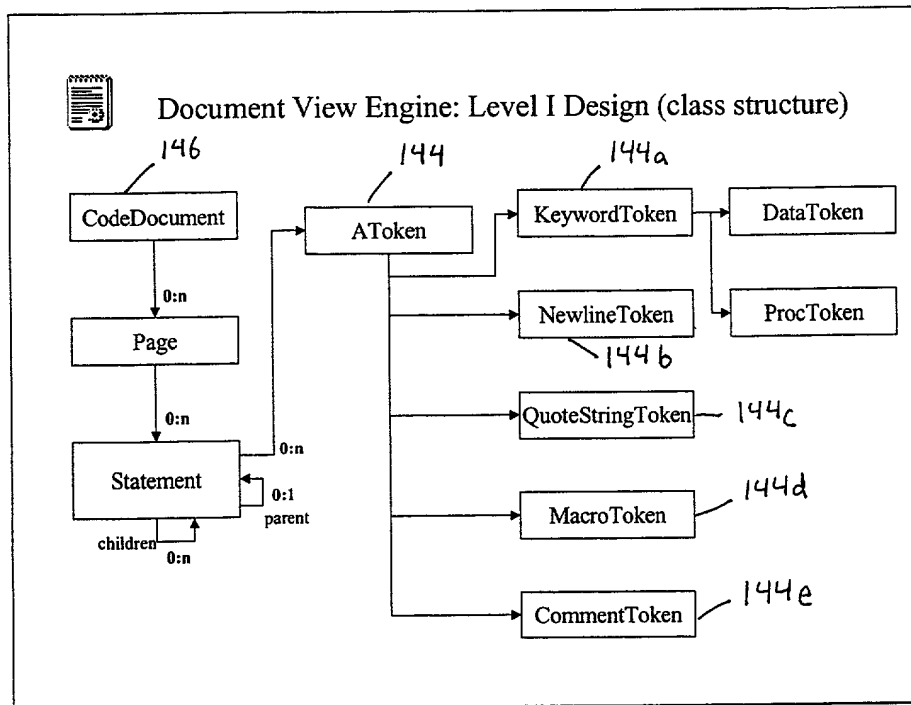


FIG. 21

42926560

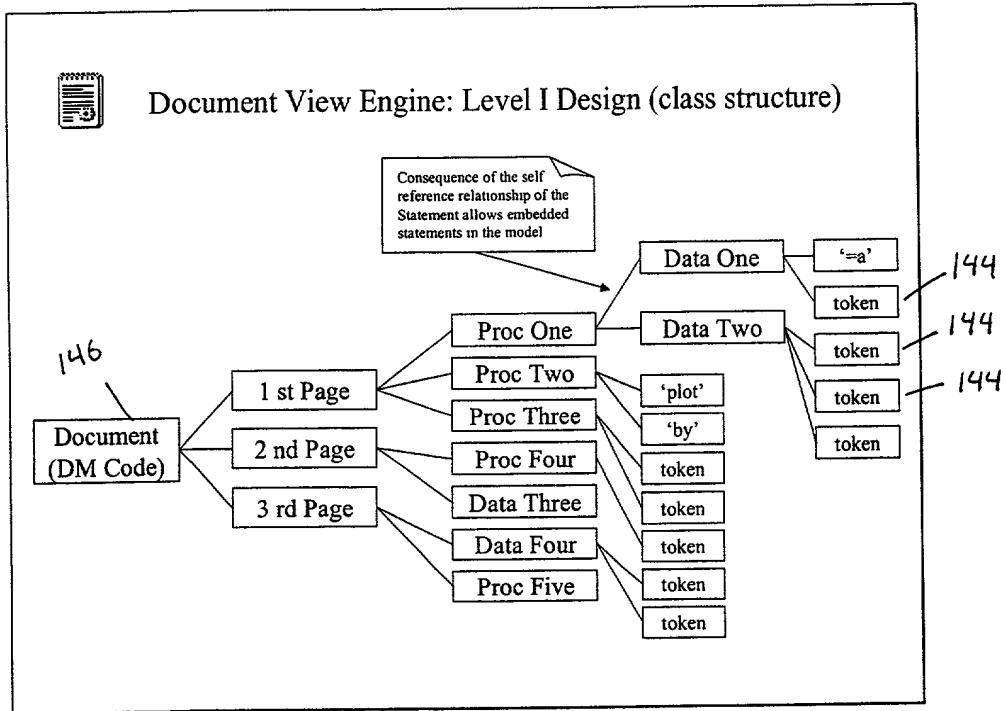


FIG. 22

complementSoft ASAP Version 2.0

complementSoft ASAP Version 2.0

File Edit Search Options Help

Document Manager
Editor
Visualizer
Server
Database Manager
Site Manager

```
Code
1 LIBNAME smp1 'd:\data\complementsoft\library' ;
2
3 Data smp1.smp1_1;
4   infile 'd:\data\complementsoft\data\smp1_1.txt';
5   input strcol1 $ strcol2 $ nbrcol;
6
7 Proc SORT out = smp1.smp1_1;
8   by strcol1;
9
10 Data NULL;
11 set smp1.smp1_1;
12 file 'd:\data\complementsoft\data\smp1_2.txt';
13 put strcol1 strcol2;
14
15 Data smp1.smp1_2;
16   infile 'd:\data\complementsoft\data\smp1_2.txt';
17   input strcol1 $ strcol2 $;
18
19 Proc SORT out = smp1.smp1_2;
20   by strcol1;
21
22 Data ConCat;
23 set smp1.smp1_1 smp1.smp1_2;
24 file 'd:\data\complementsoft\data\smp1_3.txt';
25 put strcol1 strcol2 nbrcol;
26
27 Data SideSide;
28 merge smp1.smp1_1 smp1.smp1_2;
29 by strcol1;
30 file 'd:\data\complementsoft\data\smp1_4.txt';
31 put strcol1 nbrcol;
32
33 Proc Print;
34   Title 'Two Sample SAS Data Sets Side by Side';
35 Run;
```

D:\DATA\complementSoftExamples\Example 5.sas | D:\DATA\complementSoftExamples\Example 5.sas

File(s) opened

44

112

82b

112

48

82

FIG. 23

80